

KARPOVA, N.I. (Leningrad)

Changes in the peripheral nerve branches under the effect of
vibration; experimental research. Arkh. apt. 25 no. 7:49-53 '63
(MIRA 16:12)

1. Iz Leningradskogo sanitarnogo-gigiyenicheskogo instituta.

KARPOVA, N.I.; IVANOVA, A.M.

Our practice. Apt.delo. 8 no.1:48-51 Ja-F '59. (MIRA 12:2)

1. Upravlyayushchaya aptekoy No.11, Leningrad (for Karpova).
 2. Upravlyayushchaya aptekoy No.35, Moskva (for Ivanova).
- (PHARMACISTS)

KARPOV, Boris Dmitriyevich; KARPOVA, Nadezhda Ivanovna; SHAGAN, I.B.,
red.; LEBEDEVA, G.T., tekhn. red.

[Work hygiene in the plastics industry (laminates)] Gigiena
truda v proizvodstve plasticheskikh mass; sloistye plastiki.
Leningrad, Medgiz, 1962. 30 p. (MIRA 15:9)
(Plastics industry--Hygienic aspects)

ANDREYEVA-GALANINA, Ye.TS., prof.; KARPOVA, N.I., kand.med.nauk

Noise is harmful. Med. sestra 21 no.1:25-28 Ja '62. (MIRA 15:3)
(NOISE—PHYSIOLOGICAL EFFECT)

KARPOVA, N.I.

Pathomorphological changes in the rabbit spinal cord in local vibration. Trudy LSGMI 75:20-24 '63.

Functional changes in the central nervous system in local vibration. Ibid.:51-56 (MIRA 17:4)

1. Iz kafedry gigiyeny truda s klinikoy professional'nykh zabolevaniy (zav. kafedroy - prof. Ye.TS. Andreyeva-Galanina) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

ANDREYEVA-GALANINA, Ye.TS; KARPOVA, N.I. (Leningrad)

Materials on the pathogenesis of the vibration disease. Cig.
truda i pref. zab. 7 no.1s4-9 Ja'63 (MIRA 16:12)

1. Sanitarno-gigiyenicheskiy meditsinskiy institut, Leningrad.

FRIDRIKH, A.R.; KARPOVA, N.L., red.; MEDVEDEVA, M.A., tekhn.red.

[General cultural work among railroad employees; from the practice of trade-union organizations and cultural organizations of railroad transport] Kul'turno-massovaya rabota sredi zheleznodorozhnikov; iz opyta raboty profsoiuznykh organizatsii i kul'turno-prosvetitel'nykh uchrezhdenii zheleznodorozhnogo transporta. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 102 p. (MIRA 13:6)

(Railroads--Employees--Education and training)

TOLKACHEVA, M.M.; KARPOVA, N.L., red.; BOEROVA, Ye.N., tekhn.red.

[Organization of the work of locomotive crews] Organizatsiia truda
lokomotivnykh brigad. Moskva, Vses. izd-ko-poligr.ob"edinenie m-va
putei soob., 1960. 109 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'-
skii institut zheleznodorozhnogo transporta. Trudy, no.197).

(MIRA 13:11)

(Locomotives)

(Railroads—Freight)

NIKOLAYEV, Lev Aleksandrovich, prof., doktor khim.nauk; KARPOVA, N.L.,
red.; BOBROVA, Ye.N., tekhn.red.

[Synthetic materials and their application in railroad equipment]
Sinteticheskie materialy i ikh primeneniye v zheleznodorozhnoi
tekhnike. Moskva, Vses.izdatel'sko-poligr.ob"edineniye M-va puti
soobshcheniya, 1960. 130 p. (MIRA 13:9)
(Railroads--Equipment and supplies)
(Synthetic products)

ARKHANGEL'SKIY, Anatoliy Serapionovich; IVLIYEVA, I.V., red.; POTAPOVA,
V.P., red.; KARPOVA, N.L., red.; BOHRIOVA, Ye.N., tekhn.red.

[Transportation rates] Transportnye tarify. Moskva, Vses.
izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960.
290 p. (MIRA 13:12)

(Transportation--Rates)

DOBRUSHIN, V.A.; MILOVANOV, V.S.; KARPOVA, N.L., red.; KHITROV, P.A.,
tekhn. red.

[Bibliographical guide to the publications of the State
Publishing House for Railroad Transportation Literature,
1950-1959] Bibliograficheskii spravochnik izdani trans-
zheldorizdata, 1950-1959. Moskva, Vses. izdatel'sko-
poligr. ob"edinenie M-va putei soobshcheniia, 1961. 345 p.
(MIRA 14:5)

(Bibliography--Railroads)

KARPOVA, N.L., red.; KHITROV, P.A., tokhn.red.

[Traveler's guidebook] Spravochnik passazhira. Moskva, Trans-
zheldorizdat, 1961. 358 p. (MIRA 14:6)
(Transportation—Passenger traffic)

VOLKOV, Anatoliy Mikhaylovich; PIRIN, I.V., retsenzents; ZHDANOV, P.A.,
retsenzents; KARPOVA, N.L., red.; VOROTNIKOVA, L.F., tekhn.
red.

[Reducing the noise and vibrations of rolling stock] Umen'shenie
shuma i vibratsii podvizhnogo sostava. Moskva, Vses. izdatel'sko-
poligraf. ob"edinenie M-va putei soobshcheniia, 1961. 62 p.

(MIRA 14:10)

(Railroads—Rolling stock)

PAKHMAN, T.A., kand.ekon.nauk, red.; KARPOVA, N.L., red.; MEDVEDEVA, M.A.,
tekh.n.red.

[Improving the organization of grain transportation] Ratsionalizatsiia
perevozok khlebnnykh gruzov. Moskva, Vses.izdatel'sko-poligr.
ob'edinenie m-va putei soob., 1960. 134 p. (Moscow. Vsesoiuznyi
nauchno-issledovatel'skii institut zheleznodorozhnogo transporta.
Trudy, no.200). (MIRA 14:5)

(Grain handling)

PILETSKIY, V.A.; SOLOVEYCHIK, M.A.; KLYSHNIKO', F.L.; BABADZHANOVA, V.I.;
LUTSENKO, I.G.; KAMINSKIY, Yu.K.; FRIDMAN, M.I.; KARPOVA, N.L.,
red.; BOBROVA, Ye.N., tekhn. red.

[Passenger's handbook] Spravochnik passazhira. Moskva, Trans-
zheldorizdat, 1962. 367 p. (MIRA 15:6)
(Transportation—Timetables)

KRICH, Boris Vladimirovich; SHAFIRKIN, B.I., retsensent; KARPOVA,
N.L., red.; DROZDOVA, N.D., tekhn. red.

[Ways for a more efficient organization of freight
transportation] Puti ratsionalizatsii perevozok. Moskva,
Transzheldorizdat, 1963. 74 p. (MIRA 16:6)
(Freight and freightage)

PILETSKIY, V.A.; SOLOVEYCHIK, M.Z.; KLYSHNIKOV, F.L.; BABADZHANOVA,
V.I.; LUTSENKO, I.G.; KAMINSKIY, Yu.K.; KARPOVA, N.L.,
red.; KHITROV, P.A., tekhn. red.

[Passenger's manual] Spravochnik passazhira. Moskva, Trans-
zheldorizdat, 1963. 334 p. (MIRA 16:6)
(Transportation--Timetables)

RABKIN, Yefim Borisovich, prof.; SOKOLOVA, Yelena Georgiyevna, kand. med. nauk; FRID, Yudol'f Vladimirovich, kand. tekhn. nauk; KOVAL'SKIY, Nikolay Nikolayevich, inzh.-khim.; CHERNIGOVSKIY, V.N., akademik, red.; KARPOVA, N.L., red.

[Aid for efficient color schemes; with colorimetical index of samples] Rukovodstvo po ratsional'nomu tsvetovomu oformleniiu; s naborom kolorimetrirovannykh obraztsov tsvetov. Moskva, Izd-vo "Transport," 1964. 46 p.
(MIRA 17:4)

1. Predsedatel' komissii po fiziologicheskoy optike pri Institute fiziologii im. I.P.Pavlova AN SSSR (for Chernigovskiy).

KARPOVA, N.N., inzh.; DUMAYEV, M.N., inzh.

Use of hydrocyclones for the flotation of coal fines. Sbor. inform.
po obog. i brk. ugl. no. 1:40-44 '57. (MIRA 11:4)
(Separators (Machines)) (Flotation)

MELIK-STEPANOVA, A.G., inzhener; KARPOVA, N.N., inzhener; CHERNENKO, B.G.,
kandidat tekhnicheskikh nauk; DAVIDKOV, N.I., inzhener.

Results of investigating the preparation properties of coals which are
difficult to analyse. Nauch.rab. VUGI no.9:68-85 '53. (MIRA 7:6)

1. Laboratoriya obogashcheniya ugley. (Coal--Analysis) (Coal--Preparation)

KARPOVA, N.N., aspirant.

Effect of distribution of mineral impurities in coal on flotation.
Nauch.rab. VUGI no.9:98-110 '53. (MIRA 7:6)

1. Laboratoriya obogashcheniya ugley.
(Coal preparation) (Coal--Analysis)

GORLOV, I.P., inzh.; KARPOVA, N.N., inzh.

Preparation of slime for flotation. Obeg. 1 briq. ugl. no.5:36-45
'58. (MIRA 12:9)

(Coal preparation) (Flotation)

KARPOVA, N.N., insh.

Flotation of polysulfide coals. Nauch.trudy po obog.i brik.ugl.
no.1:145-178 '58, (MIRA 12:10)
(Flotation)

YEL'YASHEVICH, Mirra Grigor'yevna; PUSHKARENKO, Yevgeniya Ivanovna;
KARPOVA, N.N., otv.red.; ROMANOVA, A.A., red.izd-va;
IL'INSKAYA, G.M., tekhn.red.

[Coal flotation practices] Opyt flotatsii uglei. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960.
205 p. (MIRA 14:3)
(Coal preparation) (Flotation)

STOROZHENKO, Aleksandr Panteleyevich; SOKOLOV, Vladimir Gennadiyevich;
KOZLOVA, Neonila Petrovna; GUSAROVA, Mariya Afrikanovna;
VORONOV, Kuz'ma Denisovich; KARPOVA, N.N., otv. red.; TURCHENKO,
V.K., otv. red.; GARBER, T.N., red. ~~izd-vo~~; BOLDYREVA, Z.A.,
tekhn. red.

[Maintenance of machines in coal-preparation plants] Ukhod za
mashinami na ugleobogatitel'nykh fabrikakh. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 258 p.

(MIRA 15:1)

(Coal preparation—Equipment and supplies)

SKLOVSKAYA, A.A., *otv. red.*; DREMAYLO, P.G., *inzh., zam. otv. red.*; KAMINSKIY, V.S., *kand. tekhn. nauk, zam. otv. red.*; AVETISYAN, A.N., *red.*; BRILLIANTOV, V.V., *kand. tekhn. nauk, red.*; GALIGUZOV, N.S., *kand. tekhn. nauk, red.*; GORLOV, I.P., *red.*; GREBENSHCHIKOV, V.P., *red.*; DAVYDKOV, M.I., *red.*; ZVENIGORODSKIY, G.Z., *red.*; KARPOVA, N.N., *red.*; KOZKO, A.I., *red.*; MARUSEV, P.A., *red.*; PONOMAREV, I.V., *red.*; POPUTNIKOV, F.A., *red.*; SOKOLOVA, M.S., *kand. tekhn. nauk, red.*; TURCHENKO, V.K., *red.*; FILIPPOV, V.A., *red.*; YUSIPOV, A.A., *red.*; YAGODKINA, T.K., *red.*; MIRONOVA, T.A., *red. izd-va*; LOMILINA, L.N., *tekhn. red.*; MAKSIMOVA, V.V., *tekhn. red.*

[Technological trends in coal preparation] Tekhnicheskie napravleniya obogashcheniya uglei. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1963. 120 p. (MIRA 16:10)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley. 2. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley (for Yagodkina, Brilliantov).
(Coal preparation)

TSIPRIS, D.B., kand. tekhn. nauk; KARPOVA, N.V., agronom-ekonomist

Calculation modulus for irrigation systems in the northwest of the
R. S. F. S. R. Gidr. i mel. 17 no.2:9-17 F '65. (MIRA 18:5)

1. Severnyy nauchno-issledovatel'skiy institut gidrotekhniki i
melioratsii.

IGNATENKO, N.; KARPOVA, O., inzh.; PRAVON, E.

Letters to the editor. NTO 3 no.4:51 Ap '61. (MIRA 14:3)

1. Predsedatel' Belgorodskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva pishchevoy promyshlennosti (for Ignatenko).
2. Chlen soveta Nauchno-tekhnicheskogo obshchestva shelkotskatskoy fabriki, g. Kalinin (for Karpova).
3. Predsedatel' pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva kombinata molochnykh produktov, G. Pyarmu, Estonskoy SSR (for Pravon).
(Technological innovations)

KARPOVA, O. S.

"The Effect of Record-Breaking Rams of the Askaniy Fine Fleece Breed on the Qualitative Improvement of Sheep Production of the Kolkhozes of the Sheep Breeding Farms of the Khersonskaya and Lkoyevskaya Oblasts." Cand Agr Sci, Saratov Zooveterinary Inst, Saratov, 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

KARPOVA, O.V.

Absolute method for measuring dielectric parameters of solids
by means of a channel-type resonator. Fiz. tver. tela 1 no.2:
246-255 F '59. (MIRA 12:5)

(Dielectrics)

KARPOVA, O. V., Candidate Phys-Math Sci (diss) -- "An absolute method of measuring dielectric parameters of solid substances using a u-shaped resonator".

Saratov, 1959. 7 pp (Min Higher Educ USSR, Saratov State U im N. G. Chernyshevskiy),
200 copies (KL, No 24, 1959, 125)

KARPOVA, O.V.

Quartzites containing tourmalines in the western contact of
the Kopanskiy and Matkal'skiy gabbro massifs. Izv. AN SSSR.
Ser. geol. 29 no.11:45-62 N '64. (MIRA 17:12)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralologii i geokhimii AN SSSR, Moskva.

KARPOVA, O.V.

Tourmaline from the region of the development of basic rocks in
the western slope of the Southern Urals. Trudy Min.muz. no.16:101-
113 '65. (MIRA 18:8)

S/263/62/000/011/020/022
1007/1207

34.7800

AUTHOR: Karpova, O. V.

TITLE: Absolute method for measuring the relative permittivity (dielectric constant) by means of a Π -resonator

PERIODICAL: Referativnyy zhurnal, ot del'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 11, 1962, 57-58 abstract 32.11.419. "Nauchn. ezhegodnik Saratovsk. un-t. Fiz. fak. i N.-i. in-t mekhan. i fiz., 1955". Saratov, 1960, 119-123

TEXT: Cylindrical-cavity rectangular and Π -resonators, used for measuring dielectric characteristics, of materials in the microwave band, have a broader tuning range than resonators of other shape. Despite the small sizes and simple shape of specimens that can be measured by the Π -resonator, the solution of the resonance equation for various characteristics of the Π -resonator is connected with certain mathematical difficulties. It is shown that all existing measuring methods using a Π -resonator require a preliminary experimental calibration. A resonance equation, based on the Hahn method was obtained for a Π -resonator partly filled with a dielectric, permitting the relative method of measuring electric characteristics of a dielectric, to be transformed into an absolute method. This equation makes it possible to plot for a particular type of resonator the theoretical calibration curve: $\varepsilon = f(\lambda_{res})$. The value of the relative permittivity ε can be found

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Absolute method for measuring the relative...

S/263/62/000/011/020/022
I007/I207

from this curve by measuring the resonance wavelength λ_{res} . Results are reported on determinations of dielectric constants ϵ for polystyrene, ebonite, sulfur, sodium chloride and titanium dioxide. The values of ϵ obtained by this method are in good agreement with the data by other authors. The method, whose accuracy (1%) is not affected by the particular shape of the dielectric involved, permits the measurement of large values of dielectric constants (tests were done up to $\epsilon = 30$).

[Abstracter's note: Complete translation.]

Card 2/2

KALININ, Ye.V.; KARPOVA, O.V.; TSEPAKINA, L.P.

Dependence of the discharge potential of wet insulators on the
duration of applied voltage and intensity of the rain. Izv.

NIPT no.8:343-350 '61.

(MIRA 15:7)

(Electric lines--Overhead)

KALININ, Ye.V., kand.tekhn.nauk; KARPOVA, O.V., inzh.; TSEPAKINA, L.P., inzh.

Dependence of the discharge potential of wet insulators on the time
duration the insulator being subject to the action of the potential
and on the intensity of the rain. Elek.sta. 33 no.2:59-62 F '62.

(MIRA 15:3)

(Electric lines-Overhead)(Electric insulators and insulation)

KALININ, Ye.V., kand.tekhn.nauk, dotsent; KARLOVA, O.V., inzh.

Increase in the accuracy of the measurement of wet die charge potentials at commercial frequencies. Elektricheskoye no.11:183-26 N 184. (MIRA 18:2)

1. Nauchno-issledovatel'skiy institut postoyannogo toka.

KALININ, Ye.V., kand. tekhn. nauk; KARPOVA, O.V., inzh.

Design of flare-type line insulators and wet discharge potential of
suspension insulator chains. Elek. sta. 36 no.6:63-66 Je '65.

(MIRA 18:7)

KARPOVA, O.Yu., inzh.

Box trucks for doffing. Tekst.prom. 21 no.7:28-29 J1 '61.

(MIRA 14:8)

(Spinning machinery)

KARPOVA, P. A.

PROCESSES AND PROPERTIES INDEX

7

Use of zinc for reducing tungsten in the colorimetric determination. O. A. Kargin and P. A. Karpova. *Zashchita Lab.* 13, 38-42 (1917).—Melt 4 g. NaOH in an Fe crucible and fuse for 15-20 min. with the finely ground and calcined sample (0.5 g. ore or 0.25 g. concentrate). Cool and leach with hot water. The total vol. should not exceed 80-90 ml. Transfer the soln. and resid. due to a 100-ml. conical flask; if the soln. is green or blue, add 3 drops HCl and then 1-2 drops of formalin and carefully boil until colorless; if the soln. is colorless boil to get better sepa. of the residue. Cool the soln., transfer to a volumetric flask, dil. to the mark, mix thoroughly, and allow to settle. When the concentrates are analyzed, transfer 1 ml. with a pipet to a 100-ml. flask and dil. to the mark with 1.5% NaOH soln. From then on the analysis is the same for ores and concentrates. Transfer 6 ml. of the clear soln. to a test tube graduated for 10 ml., add 0.5 ml. 20% thiocyanate soln., then 0.075 g. Zn dust, and dil. to the mark with 20% HCl. The mix. foams violently. When the evolution of gas ceases, compare with color standards obtained similarly with known quantities of WO_3 . More permanent standards can be obtained with $(NH_4)_2Cr_2O_7$, NH_4OH , and cobaltic roseo chloride. B. Z. Kamich

A.S.M.-S.A. METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNDICATE

ISSUED MAY 1917

REVISION

FROM SYNDICATE

REVISION MAY 1917

KARPOVA, P. V., Can Med Sci -- (diss) "Anatomy of the Hepatic
Bile Ducts in Vertebrates." Stalingrad, 1957. 17 pp. (Stalingrad/
State Med Inst), 200 copies. (KL, 7-58, 112)

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GRIGORENKO, N.P., kand. med. nauk, otv. red.; LECHOV, A.N.,
zam. otv. red.; SPERANSKIY, V.S., dots. red.; ZHERDIN,
I.V., prof., red.; KARPOVA, L.P., dots., red.; PETROV,
K.M., zasl. vrach RSFSR, red.; KARPOVA, P.V., kand. med.
nauk, red.

[Papers on the anatomy of the circulatory system] Sbornik
nauchnykh rabot po anatomii krovenosnoi sistemy. Volgo-
grad, Nizhne-Volzhskoe knizhnoe izd-vo, 1964. 2 v.
(MIRA 18:12)

1. Volgograd. Meditsinskiy institut. 2. Glavnyy vrach
Oblastnogo onkologicheskogo dispansera Volgogradskogo
meditsinskogo instituta (for Petrov). 3. Kafedra normal'-
noy anatomii Volgogradskogo meditsinskogo instituta (for
Grigorenko, Speranskiy).

KARPOVA, P. Ya.

2301.

DISINTEGRATION OF POSITIVE IONS IN COLLISION WITH MOLECULES. S. F. Kurianov, M. V. Tikhonirou, V. K. Potapov, and P. Ia. Karpovs (Physico-Chemical Inst.). Soviet Phys. JETP 3, 449-51 (1956) Oct. (In English). Zhur. Eksp. i Teoret. Fiz. 30, 648-50 (1956) Mar. (In Russian). Broad peaks observed in the mass spectra of compounds whose centers of gravity do not coincide with the integral mass numbers were investigated in the study of the disintegration of positive ions in collision with molecules. (P.S.)

S/081/60/000/012(I)/001/002
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 12 (I), p. 86,
46084

AUTHORS: Tverdovskiy, I.P., Vert, Zh.L., Karpova, R.A., Mosevich, I.A.

TITLE: On the Solubility of Hydrogen in Alloys of Palladium With Silver,
Copper and Gold

PERIODICAL: Sb. tr. Gos. in-ta prikl. khimii, 1959, No. 42, pp. 182-198

TEXT: The author puts forward a scheme of distribution of electrons and "vacancies" in 4d- and 5s- bands in the Pd - Ag system and in 4d- and s- bands in the Pd-Cu system. Using simulation notions and assuming a limited number of vacancies for hydrogen dissolution in the Pd - Ag, Pd - Cu and Pd - Au systems, isothermal equations of hydrogen dissolution in the alloys are obtained. They serve to determine the magnitude of the chemical potential of hydrogen dissolved $\Delta \mu_H$, and the coefficient α , characterizing the deviation from the ideal state in the Langmuir equation. An equation is obtained for calculating

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KARPOVA, R.A.; TVERDOVSKIY, I.P.

Hydrogen overvoltage on disperse palladium-copper alloys. Trudy
GIPKH no.42:205-208, '59. (MIRA 13:10)
(Overvoltage) (Hydrogen)
(Palladium-copper alloys)

KARPOVA, R.A.; TVERDOVSKIY, I.P.

Catalytic hydrogenation and electrochemical reduction of maleic acid
on disperse deposits of the system palladium-copper. Trudy GIPKH
no.42:212-223 '59. (MIRA 13:10)
(Maleic acid) (Palladium-copper alloys)
(Hydrogenation)

KARPOVA, R.A.; TVERDOVSKIY, I.P.

Catalytic hydrogenation and electrochemical reduction of dimethyl-
acetylenylcarbinol on disperse deposits of the system palladium-
copper. Trudy GIPKh no.42:224-229 '59. (MIRA 13:10)
(Palladium-copper alloys) (Hydrogenation)
(Butynol)

KARPOVA, R.A.; TVERDOVSKIY, I.P.

Catalytic properties of the dispersed deposits of the system palladium-copper in the reactions involving the decomposition of sodium hypophosphite. Trudy GIFKH no.42:230-234 '59. (MIRA 13:10)
(Sodium hypophosphite) (Palladium-copper alloys)

5(4), 18(7)

SOV/76-33-6-35/44

AUTHORS: Karpova, R. A., Tverdovskiy, I. P.

TITLE: Sorption of Hydrogen by Disperse Palladium-copper Alloys
(Sorbtsiya vodoroda dispersnymi splavami palladiy - med')

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6,
pp 1393-1400 (USSR)

ABSTRACT: In previous papers (Refs 1-3) it was ascertained that in binary alloys Pd - Pt, Pd - Ni and Pd - Ag the sum of dissolved hydrogen and metal in palladium in the two-phase range until the disappearance of stagnation on the curves $Q - \varphi$ (caused by the α - β conversion) always remains equal to the quotient between the number of free spots in the α -band and the total number of atoms of the alloy or of the Pd, and is about 0.53. The present paper investigates the sorption and heat of solution of the hydrogen in disperse Pd-Cu alloys at room temperature (24°C). The sorption was measured according to a method worked out by reference 8, and the working process was already described (Ref 1). The $Q - \varphi$ curves were measured at 24°C, and current densities from $5 \cdot 10^{-4}$ to $2 \cdot 10^{-3}$ A/cm². The curves obtained (Fig 1) show distinctly the influence of Cu on the total solubility of H₂ in the alloy. The latter decreases regularly and attains the zero value at

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SOV/76-32

Sorption of Hydrogen by Disperse Palladium-copper Alloys

$\text{Cu} \approx 66\%$ (Table), the two-phase state of the Pd-Cu-H alloy disappearing at 26% Cu. Curves of the change of differential heat of the hydrogen dissolution in the alloy as a function of the quantity of dissolved hydrogen show (Fig 5) that the heat of solution of H_2 decreases with an increase in the Cu-content up to 14.6% Cu, which points to a weakening of the binding strength Me-H. In the solid Pd-Cu-H alloy: the copper is in the range of the two-phase system in the bivalent state. The further results and explanations lead to the statement that special measurements of the magnetic susceptibility and of the magnetic moment of the Pd-Cu-H alloy should be carried out in the range of phase transition (in order to clarify the nature of the two-phase state and the valence of Cu in the alloy). There are 4 figures, 1 table, and 13 references, 8 of which are Soviet.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii, Leningrad
(State Institute of Applied Chemistry, Leningrad)

SUBMITTED: December 13, 1957

Card 2/2

ED FOR RELEASE

KARPOVA, R. A., Cand Chem Sci (diss) -- "Electrochemical and catalytic properties of dispersion alloys of palladium and copper". Leningrad, 1960. 11 pp
(Leningrad Order of Lenin State U im A. A. Zhdanov), 225 copies (KL, No 14, 1960, 127)

27212

S/081/61/000/014/008/030
B106/B110

54700

1273 also 1274

AUTHORS: Tverdovskiy, I. P., Mosevich, I. A., Vert, Zh. L., Karpova, R. A.

TITLE: Overvoltage of hydrogen separation and catalytic properties of disperse Pd-Cu, Pd-Ag, and Pd-Au alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 14, 1961, 87, abstract 146607. (Sb. tr. Gos. in-ta prikl. khimii, no. 46, 1960, 229 - 239)

TEXT: The values of η on disperse Pd-Cu, Pd-Ag, and Pd-Au alloys were compared with their catalytic activities to clarify the relationship between the hydrogen overvoltage η on metals and the processes of electrochemical reduction and catalytic hydrogenation of organic compounds. For the systems studied, the dependence of η (or the constant a of the Tafel equation) on the alloy composition is characterized by two sections appearing on each curve; the η -value begins rising strongly only after addition of 70 - 75% of the second component to the palladium. The absolute η -values are similar for Pd-Cu and Pd-Ag alloys over the whole range of compositions; on Pd-Au

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27211

S/081/61/000/014/007/030
B:06/B110

54700

1273 also 1274

AUTHORS:

Vert, Zh. L., Karpova, R. A., Kosheleva, T. V., Tverдовский,
I. P.

TITLE:

Overvoltage of hydrogen separation on disperse Pd-Ni alloys

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1961, 87, abstract
14B606. (Sb. tr. Gos. in-ta prikl. khimii, no. 46, 1960,
240 - 244)

TEXT: The results of measurement of the hydrogen overvoltage η on disperse Pd-Ni alloys in 0.8 N NaOH at 24°C are described over a wide range of i by the Tafel equation (coefficient $b = 0.14 - 0.15$ v). The value of η at constant i rises on Pd-Ni transition, and is independent of the alloy composition in the ranges with the following nickel contents (in %): 0-25, 25-75, 75-100. An investigation of the sorption of hydrogen by disperse Pd-Ni alloys (RZhKhim, no. 1, 1954, 192) has shown that the extension of the first range coincides with the complete filling of the d-level of Pd with electrons. It is assumed that the symmetrical position of the ranges

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S/081/61/000/014/007/030
Overvoltage of hydrogen separation on ... B106/B110

with constant η -value as dependent on the alloy composition is related with the uniform structure of the external electron levels in Pd and Ni. The curve for the dependence of η on the distance between adjacent metal atoms in the alloys also shows sections with constant η -values. [Abstracter's note: Complete translation.]

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27209
S/081/61/000/014/005/030
B106/B110

5.4700 1273 also 1274

AUTHORS:

Karpova, R. A., Tverdovskiy, I. P.

TITLE:

Electrochemical behavior of powdery zirconium

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1961, 86, abstract
145597. (Sb. tr. Gos. in-ta prikl. khimii, no. 46, 1960,
261 - 267)

TEXT: The authors plotted anodic and cathodic charge curves on an electrode molded of powdery zirconium during polarization by currents with $i = 15, 90, \text{ and } 500 \mu\text{A}$ in 1 N solutions of H_2SO_4 , Na_2SO_4 , and NaOH at 24°C . Without polarization, the steady potential lies near 0.00 with respect to the potential of a reversible hydrogen electrode in the same solution. In anodic polarization of Zr with a current $i = 90 \mu\text{A}$ in 1 N H_2SO_4 , φ does not change in the region of the potential 0.250-0.300 v. This flat part of the curve is well reproducible with respect to the value of the potential φ , but badly reproducible with respect to duration. Further polarization leads to a quick increase of φ to

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Electrochemical behavior...

27209
S/081/61/000/014/005/030
B106/B110

0.850 - 0.900 v, then the changes of ϕ are negligible (second flat part). With an amperage $i = 500 \mu\text{A}$, the first flat part does not appear, and ϕ quickly attains the value of 1.4 - 1.6 v. The authors assume that the first flat part corresponds to a setting of oxygen with formation of an unstable oxide compound, the second flat part to the formation of ZrO_2 .

In solutions of NaOH and Na_2SO_4 , the first flat part is missing, while the second one appears at 0.400 - 0.450 v and 0.700 v, respectively. In both forward and reverse direction, the anodic charge curves show a large hysteresis due to the irreversibility of the oxidation process of the surface. In anodic charge curves, recorded after plotting the cathodic charge curves, the second flat part did not appear [Abstracter's note: it should probably read "second" (vtoroy) instead of "hydrogen" (vodorodnoy)]. [Abstracter's note: Complete translation.]

Card 2/2

KARPOVA, R.A.; KAL'VARSKAYA, T.M.; TVERDOVSKIY, I.P.

Electrochemical oxidation of hydrogen of dispersed Pd-Pt alloys.
Trudy GIPKH no.49:183-191 '62.

Electrochemical reduction of oxygen on dispersed Pd-Pt alloys.
Ibid.:192-200

(MIRA 17:11)

TYERDOVSKIY, I.P.; VERT, M.I.; KAPOVA, R.A.; LIPITS, T.V.; POSEVICH, I.A.;
STETSUKO, A.I.

Hydrogen evolution overvoltage on certain palladium alloys as
dependent on the interatomic distance. Trudy GIPK no.49:210-
214 '61. (MIRA 17:11)

TVERDOVSKIY, I.P.; KARPOVA, R.A.

Catalytic hydrogenation and electrochemical reduction of maleic acid on Pd-Pt alloys. Trudy GIPKH no.49:215-223 '62.

Decomposition of H_2O_2 on dispersed precipitates of the Pd - Ni system. Ibid.:224-229

Catalytic hydrogenation and electrochemical reduction of dimethylacetylenylcarbinol on dispersed Pd-Ni alloys. Ibid.:230-233

Catalytic decomposition of sodium hypophosphite on dispersed Pd-Pt alloys. Ibid.:234-237

Catalytic hydrogenation of maleic acid on a membrane palladium electrode. Ibid.:238-243

(MIRA 17:11)

L 12648-63 BDS/ENP(q)/EWT(m) AFFIC/ASD JD/HW-2
 ACCESSION NR: AP3002399 9/0080/63/036/005/1040/1045

AUTHOR: Tverdovskiy, I. P.; Vert, Zh. L.; Karpova, R. A.; Mosevich, I. A. and Stetsenko, A. I. 67 66

TITLE: Electrochemical extraction of dispersed binary alloys of palladium with metals of groups 8 and 1B 27

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 3, 1963, 1040-1045

TOPIC TAGS: palladium, binary alloy, Pt, Rh, Au, Ni, Cu, Co, Fe

ABSTRACT: In examining the physico-chemical and catalytic properties of palladium-base binary alloys, electrolytic methods of extraction of mixed dispersed predipositions of systems Pd-Pt, Pd-Rh, Pd-Au were used. Abnormal results were obtained only for the system Pd-Ni when the introduction of nickel in palladium at 30-35% was not accompanied by a change in lattice constant. In the zone of richer nickel the sizes of the elementary cell of dispersed alloys coincided approximately with parameters of the compact forms according to data of Hultgren and Zapfe (Trans. A.I.M.E. 133, 1939, 58). Use of solutions on the basis of nitrite group of palladium permitted extracting alloys Pd-Cu, Pd-Ni, Pd-Co and Pd-Fe not only by joint electrolysis, but also by chemical precipitation by means of reduction of metal ions by formate or sodium hypophosphite, hydrazine salts, etc. Orig. art. has: Cord 1/2/ Association: St. Inst. of Applied Chemistry

L 47461-66 ENT(1) GW

ACC NR: AT6032031

SOURCE CODE: UR/3225/64/000/010/0004/0034

AUTHOR: Landyreva, N. S. (Group leader); Karpova, T. B.; Safonova, A. M.;
Ul'yashina, V. A.

30
B+

ORG: none

TITLE: Seismology bulletin of the network of permanent seismological stations of the USSR

SOURCE: AN SSSR. Institut fiziki Zemli. Seysmologicheskiy byulleten' seti opornykh seismicheskikh stantsiy SSSR, no. 10, Oct. 1964. Moscow, 1965, 4-34

TOPIC TAGS: seismology, earthquake, seismologic station, epicenter, origin time, seismicity, seismographic record

ABSTRACT: The present bulletin provides the data on earthquakes recorded by permanent seismological stations in the Soviet Union during October 1964. It has been prepared by the Seismology Service Department of the Institute of Physics of the Earth of the Academy of Sciences USSR. The bulletin consists of sections I and II, each of which is subdivided into subsections a and b. The data in subsections Ia and Ib include the origin time of the earthquakes (Greenwich time), the epicenter, class of accuracy (for class A and class B earthquakes the error in determining the epicenter does not exceed 25 and 50 km, respectively), the magnitude determined from the

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L 47461-66

ACC NR: AT6032031

surface waves, and the region where the earthquake occurred. Subsections Ib and Iib contain the detailed data on the earthquakes: wave arrival time at the various permanent seismological stations, direction of displacement, i.e., compression or rarefaction, maximum amplitudes of ground vibration and the corresponding period and the distance to the epicenter. Section Ia contains data on earthquakes within the USSR, excluding the Soviet Far East, with $M \geq 4$, and the data on earthquakes in the Soviet Far East and the regions bordering the Soviet Union (up to 200 km from the border) with $M \geq 5.5$. Subsection Ib contains the data on earthquakes within the USSR, excluding the Soviet Far East, with $M \geq 4.5$ and the data for Soviet Far East, regions bordering the Soviet Union, and the Kurile-Kamchatka arc with $M \geq 5.5$. Section II contains the data on distant earthquakes. Subsection Iia contains the data on earthquakes in Europe and Asia with $M \geq 5$ and the data on earthquakes in the rest of the world with $M \geq 5.5$. Subsection Iib contains more detailed data on earthquakes in Europe and Asia with $M \geq 5.5$ and the data on earthquakes in the rest of the world with $M \geq 6$. A list of permanent seismological stations, the data from which were used in the bulletin, includes their geographic location, type of instruments used, and the addresses of the institutes; it is published twice a year in issues number 1 and 7. A special issue published annually contains detailed data on parameters and frequency-amplitude characteristics of the instruments. Orig. art. has: 4 tables.

[BA]

SUB CODE: 08/ SUBM DATE: none

Card 2/2 *ldh*

KARPOVA, T. F.

Distr: 4841/453a

2844 KRL-T/CA-46

HEAT OF FORMATION OF URANYL FLUORIDE AND
HEAT OF REACTION OF URANIUM HEXAFLUORIDE AND
TETRAFLUORIDE WITH WATER. M. M. Petrov, P. A.

Kostylev and T. F. Karpova. Translated by E. G. Peters
from Zhur. Neorgan. Khim., 2, 8-18 (1957), 7p.

When the present work was begun, in 1950, data concerning the thermal chemistry of fluorine compounds of uranium were far from complete. In particular, there were no data about the heat of formation of UO_2F_2 , the heat of hydrolysis of UF_4 , and the heat of hydration of UF_6 ; this limited the possibility of making thermodynamic calculations of reactions in which the above compounds take part. The present work was intended to provide these data.

(auth)

PM

GR

6
2

SOV/120-59-1-30/50

AUTHORS: Senin, M. D., Morozov, Yu. M., Karpova, T. F.

TITLE: Gas Balance with a Magnetic Arrestor (Gazovyye vesy s magnitnym arretirom)

PERIODICAL: Pribury i tekhnika eksperimenta, 1959, Nr 1, pp 125-127 (USSR)

ABSTRACT: In the determination of the isotopic composition of hydrogen or the density of radioactive gases by means of gas balances (Refs 1-3) the gases under investigation may become contaminated by vacuum grease used in the seals of the arresting devices. The present paper describes quartz gas balances in which this disadvantage is removed. They are arrested by means of a permanent magnet. The sensitivity of the balance

is $4.4 \times 10^{-8} \text{ g/cm}^3$ (change in the density per scale division). The balance is illustrated in Fig 1. The balance beam 2 is 230 mm long and is prepared from fused quartz rods 1.5 mm in diameter. It is in the form of a very narrow triangle. A hollow quartz sphere is attached to one end of this triangle. In the working position the triangle rests on two corundum pins 13 as shown in Fig 1. The distance from the centre of the sphere to these pins is 95 mm. The weight of the sphere is 1.6 g and its volume 29 cm^3 . It is balanced by a quartz

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SOV/120-59-1-30/50

Gas Balance with a Magnetic Arrester

sphere bearing a pointer. The total weight of the beam is 5 g. The balance is brought into action by the arrester lever 14 which rests on two supports 3. The arrester is operated by means of an external magnet. There are 2 figures and 10 references, of which 3 are German, 2 are Soviet and the rest are English.

SUBMITTED: January 8, 1958.

Card 2/2

L 19614-65 EWT(m)/EPF(a)/EWF(j)/T Pc-L/Pr-L EM

ACCESSION NR: AP5003219

S/0062/64/000/007/1230/1233

AUTHOR: Ivanov, B. Ye.; Karpova, T. I.

TITLE: Synthesis and properties of α -oxymethylphosphinic and dimethylolphosphinic acid

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1964, 1230-1233

TOPIC TAGS: chemical reaction, organic phosphorus compound

ABSTRACT: When paraform is added to phosphoric acid, its salts, or salts of hypophosphoric acid, α -oxymethylphosphinic acid and its salts are formed together with salts of dimethylolphosphinic acid at a 90-93% yield. The aniline salt of the monoacetate of dimethylolphosphinic acid has melting point of 109-144° and that of the diacetate of dimethylolphosphinic acid -- 143-146°. Both the mono- and diacetates of dimethylphosphinic acid are syrupy liquids, readily soluble in water and alcohol. They were characterized by their aniline salts.

Card 1/2

L 19614-65

ACCESSION NR: AP5003219

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR Kazan' (Institute
of Organic Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 03Dec62

ENCL: 00

SUB CODE: OC,GC

NO REF SOV: 000

OTHER: 003

JPRS

Card 2/2

KARPOVA, T. M.

Karpova, T. M.

"The distribution, numerical development, and migration of certain harmful insects in multi-field crop rotation." Gor'kiy State U. Chair of Darwinism and Genetics. Gor'kiy, 1956. (Dissertation For the Degree of Candidate in Biological Sciences.)

Knizhnaya letopis'
No 21, 1956. Moscow.

KARPOVA, T. M.

P. 2

PHASE I BOOK EXPLOITATION

SOV/3688

Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologii mashinostroyeniya. Seminar po kachestvu poverkhnosti

Kachestvo poverkhnosti detaley mashin, sbornik 4. Tekhnologicheskiye faktory obrabotki. Metrologiya i pribory. Ekspluatatsionnyye svoystva poverkhostnogo sloya (Surface Quality of Machine Parts, Collection of Articles, No. 4. Processing Factors in Machining. Metrology and Instruments. Operational Properties of the Surface Layer) Moscow, Izd-vo AN SSSR, 1959. 291 p. (Series: Its: Trudy) Errata slip inserted. 3,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.

Resp. Ed.: P.Ye. D'yachenko, Professor; Ed. of Publishing House: G.B. Gorshkov; Tech. Ed.: T.P. Polenova.

PURPOSE: This collection of articles is intended for technical personnel concerned with the quality of surface finishes of machine parts.

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Surface Quality (Cont.)

SOV/3688

COVERAGE: This collection of articles deals with problems of surface roughness and the effect of surface roughness on the wear and strength of machine parts. Among the topics discussed are the development of international standards for surface roughness, the effect of cutting feeds and cutting-tool vibration on the surface roughness of machined parts, the effect of lay direction on the wear of plane friction surfaces, methods and instruments for measuring surface roughness, and the processing of profilograms of finished surfaces. No personalities are mentioned. References follow several of the articles.

TABLE OF CONTENTS:

D'yachenko, P.Ye., V.E. Vaynshteyn, and T.M. Karpova. Development of a Draft of the International Standards for Surface Roughness	3
Chestnov, A.L. (Deceased). Effect of Sliding Velocity and Surface Roughness of Journal on the Wear of Sliding-Contact Bearings	13
Puzankov, V.V. Investigation of the Optimum Surface Roughness of Sliding Pairs	32
Card 2/7	

Zernova, T. H., D'yachenko, P. Ye., and Tolkachova, K. A.

'Determination of the Actual Area of Contact of Contracting Surfaces' p 46

Gul'noye i granichnoye treniye. Friksionnyye materialy (Dry and Boundary Friction. Friction Materials) Moscow, Izd-vo AN SSSR, 1960. 302 p. Errata slip inserted. 3,500 copies printed. (Series: Its: Trudy, v. 2)

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.
Resp. Ed.: I. V. Kragel'skiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: K. I. Grigor'ch; Tech. Ed.: S. G. Tikhomirova.

The collection published by the Institut mashinovedeniya, AN SSSR (Institute of Science of Machines, Academy of Sciences USSR) contains papers presented at the III Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines, April 9-15, 1957).

D'YACHENKO, Petr Yefimovich, doktor tekhn.nauk, prof.; TOLKACHEVA, Nina Nikolayevna; ANDREYEV, Gavriil Alekseyevich; KARPOVA, Tamara Mikhailovna; BANKVITSER, A.L., red.izd-va; GOLUB', S.P., tekhn. red.

[Area of actual contact of mating surfaces] Ploshchad' fakticheskogo kontakta sopriazhennykh poverkhnostei. Moskva, Izd-vo Akad. nauk SSSR, 1963. 94 p. (MIRA 16:6)
(Surfaces (Technology))

KHRUSHCHEV, S.V., dotsent; KARPOVA, T.M.

Physical education of senior students. Zdrav.Ros.Feder. 7
no.1:42 Ja '63. (MRA 16:2)

1. Iz Ivanovskogo meditsinskogo instituta.
(PHYSICAL EDUCATION AND TRAINING)

SOKOLOV, Viktor Aleksandrovich; KARPOVA, T.V., red.; POPOVA,
S.M., tekhn. red.

[I^{132} , the short-lived iodine isotope] Korotkozhivushchii

izotop ioda - J^{132} . Moskva, Gosatomizdat, 1963. 21 p.
(MIRA 16:10)

(Iodine isotopes)

LEVIN, Valentin Il'ich; KASPOVA, T.V., red.

[Radioactive manganese] Radioaktivnyi marganets. Moskva, Atomizdat, 1964. 12 p. (MIRA 17:5)

RUDENKO, Nikolay Pavlovich; SEVAST'YANOV, Aleksandr Ivanovich;
KARPOVA, T.V., red.

[Radioactive beryllium isotopes Be^7 and Be^{10}] Radio-
aktivnye izotopy berillia Be^7 i Be^{10} . Moskva, Atomizdat,
1964. 22 p. (MIRA 17:6)

LEVIN, Valentin Il'ich; KARPOVA, T.V., red.; POPOVA, S.M., tekhn.
red.

[Radioactive krypton and xenon isotopes] Radioaktivnye izo-
topy kriptona i ksenona. Moskva, Atomizdat, 1964. 25 p.
(MIRA 17:3)

KOZLOV, Vladimir Fedorovich; KARPOVA, T.V., red.

[Photographic dosimetry of ionizing radiations] Foto-
graficheskaiia dozimetriia ioniziruiushchikh izlucheni.
Moskva, Atomizdat, 1964. 154 p. (MIRA 17:10)

BOGDANKEVICH, Oleg Vladimirovich; NIKOLAYEV, Fridrikh Alekseyovich;
KARPOVA, T.V., red.

[Experiments with a beam of bremsstrahlung; methodological characteristics of physical research on electron accelerators]
Rabota s puchkom tormoznogo izlucheniia; osobennosti metodiki fizicheskikh issledovaniia na elektronnykh uskoriteliakh. Moskva, Atomizdat, 1964. 246 p. (MIRA 17:10)

BEREZINA, Nina Mikhailovna; KUZIN, A.M.; red.; KALININ, V.V.;
red.

[Radiation of farm crop seeds before sowing] Ispytaniya
oblucheniya semian sel'skokhoziaistvennykh rastenii. Mo-
skva, Atomizdat, 1964. 210 p. (MIL 1964)

1. Chief-correspondent AN SSSR (for Kuzin).

YEVSEYEVA, L.S.; FOMINA, N.P.; KARPOVA, T.V., red.

[Oxidation-reduction properties of uranium-bearing
sedimentary rocks] Okislitel'no-vosstanovitel'nye svoistva
osadochnykh uranonosnykh porod. Moskva, Atomizdat, 1965.
66 p. (MIRA 18:3)

KOTEGOV, Kim Veniaminovich; PAVLOV, Oleg Nikolayevich; SHVEDOV,
Vladimir Petrovich; KARPOVA, T.V., red.

[Technetium] Tehnetsii. Moskva, Atomizdat, 1965. 149 p.
(MIRA 18:7)

L 47462-66 ENT(1) CW

ACC NR: AT6032032

SOURCE CODE: UR/3225/64/000/011/0004/0030

AUTHOR: Landyreva, N. S. (Group leader); Karpova, T. B.; Safonova, A. M.; Ul'yashina, V. A.

30
B+

ORG: none

TITLE: Seismology bulletin of the network of permanent seismological stations of the USSR

SOURCE: AN SSSR. Institut fiziki Zemli. Seysmologicheskii byulleten' seti opornykh seysmicheskikh stantsiy SSSR, no. 11, Nov. 1964, Moscow, 1965, 4-30

TOPIC TAGS: seismology, earthquake, seismologic station, epicenter, origin time, seismicity, seismographic record

ABSTRACT: The present bulletin provides the data on earthquakes recorded by permanent seismological stations in the Soviet Union during November 1964. It has been prepared by the Seismology Service Department of the Institute of Physics of the Earth of the Academy of Sciences USSR. The bulletin consists of sections I and II, each of which is subdivided into subsections a and b. The data in subsections Ia and Ib include the origin time of the earthquakes (Greenwich time), the epicenter, class of accuracy (for class A and class B earthquakes the error in determining the epicenter does not exceed 25 and 50 km, respectively), the magnitude determined from the

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L 47462-66

ACC NR: AT6032032

surface waves, and the region where the earthquake occurred. Subsections Ib and IIb contain the detailed data on the earthquakes: wave arrival time at the various permanent seismological stations, direction of displacement, i.e., compression or rarefaction, maximum amplitudes of ground vibration and the corresponding period and the distance to the epicenter. Section Ia contains data on earthquakes within the USSR, excluding the Soviet Far East, with $M \geq 4$, and the data on earthquakes in the Soviet Far East and the regions bordering the Soviet Union (up to 200 km from the border) with $M \geq 5.5$. Subsection Ib contains the data on earthquakes within the USSR, excluding the Soviet Far East, with $M \geq 4.5$ and the data for Soviet Far East, regions bordering the Soviet Union, and the Kurile-Kamchatka arc with $M \geq 5.5$. Section II contains the data on distant earthquakes. Subsection IIa contains the data on earthquakes in Europe and Asia with $M \geq 5$ and the data on earthquakes in the rest of the world with $M \geq 5.5$. Subsection IIb contains more detailed data on earthquakes in Europe and Asia with $M \geq 5.5$ and the data on earthquakes in the rest of the world with $M \geq 6$. A list of permanent seismological stations, the data from which were used in the bulletin, includes their geographic location, type of instruments used, and the addresses of the institutes; it is published twice a year in issues number 1 and 7. A special issue published annually contains detailed data on parameters and frequency-amplitude characteristics of the instruments. Orig. art. has: 4 tables. [BA]

SUB CODE: 08/ SUBM DATE: none/

Card

2/2

tdh

KARPOVA, V. I.

USSR/Nuclear Physics - Nuclear capture of mesons

FD-2879

Card 1/2 Pub. 146 - 16/26

Author : Zamchalova, Ye. A.; Karpova, V. I.; Tret'yakova, M. I.

Title : Nuclear capture of negative heavy meson

Periodical : Zhur. eksp. i teor. fiz., 29, August 1955, 245

Abstract : In type-P photoplates with emulsion thickness 300 microns irradiated in the stratosphere, the authors found a case where the visible flight path of one particle (photograph in the original) amounts to as much as 495 microns. According to a measurement of ionization and scattering along the trace, the photograph shows clearly that the particle was stopped at a certain point A from which proceed two tracks: one gray one and one very short black one about 1 micron. The presence of the short black track testifies to the nuclear capture of a primary particle which thus can be either a negative pi-meson or a heavier negative particle. Another particle exited from the emulsion after traversing a path of 674 microns, its ionization amounting to 3.2 ± 0.3 of minimum ionization; hence it follows that the first mentioned particle is heavier than a pi-meson, since if one even assumes the second particle to be a proton then its energy must be about 200 Mev. A proton of such energy cannot be created during nuclear capture

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FD-2879

of a pi-meson. The mass of the second particle turns out to be $350 \pm 200 \cdot m_e$; therefore it must be a pi-meson, and hence its energy is about 30 Mev. Similarly, the mass of the first particle must be between pi-meson and proton, all of which indicates nuclear capture of the stopped negative heavy meson. Thanks I. M. Gramenitskiy and M. I. Podgoretskiy.

Institution : Physics Institute im. P. N. Lebedev, Academy of Sciences USSR

Submitted : April 18, 1955

KARPOVA, V.I.; MALLITSKIY, V.A.

Tissue structure of the skin of southern Kazakh Merino sheep of the
Aral Sea region type. Trudy Inst. eksp. biol. AN Kazakh. SSR. 1:108-
117 '64. (MIRA 18:4)

KARPOVA, V. I.

37476. CHAGIROV, I. A. i KARPOVA, V. I. Kharakteristika Kozhno-
volosyanogo Pokrova Ovetz Arkharomerinos. Izvestiya Akad. Nauk.
Kazakh. SSR, No. 71, Seriya Biol., vyp. 5, 1949, c. 121-24.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

2822 Karova, V. I.

Morfologicheskaya Kharakteristika kozhno-bolosyennogo pokriva novykh porod koz i ovets sravnitel'no s ikh iskhodnymi formami. Alma-ata, 1954. 12 s. 22 sn.
(Akad. nauk Kazakh. SSR. in-t Eksp. Biol. Laboratoriya morfologii S. kh. Zhivotnykh) 100 EKZ. B. Ts. -- (54-55730)

KARPOVA, V.I.

Morphological characteristics of the skin and wool coat of Kazakh
fine-wool sheep as compared with the initial forms. Trudy Inst. eksp.
biol. AN Kazakh.SSR 2:51-63 '54. (MIRA 10:2)
(KAZAKHSTAN--SHEEP BREEDS) (HIDNS AND SKINS)

KARPOVA, V.I.

Formation of the skin and hair coat in the new strain of Kazakh
wool goats. Trudy Inst. eksp. biol. AN Kazakh. SSR 2:127-145 '54.
(KAZAKHSTAN GOATS) (MIRA 10:2)
(HIDES AND SKINS)

KARPOVA, V.I.

Morphological characteristics of the skin and hair coat of the new strain of Kazakh wool goats as compared with the initial forms.
Trudy Inst. eksp. biol. AN Kazakh. SSR 2:146-159 '54. (MIRA 10:2)
(KAZAKHSTAN--GOATS) (HIDES AND SKINS)

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; LAVROVA, L.P., kand. tekhn. nauk; SOLOV'YEV, V.I., kand. khim. nauk; FREYDLIN, Ye.M., kand. veter. nauk; PEROVA, P.V., kand. veter. nauk; SADIKOVA, I.A., kand. biol. nauk; KRYLOVA, V.V., starshiy nauchnyy sotrudnik; BUSHKOVA, L.A., starshiy nauchnyy sotrudnik; RYNDINA, V.P., starshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., starshiy nauchnyy sotrudnik; KARGAL'TSEV, I.I., assistant; MIKHAYLOVA, A.Ye., mladshiy nauchnyy sotrudnik; KARPOVA, V.I., mladshiy nauchnyy sotrudnik; POLETAYEV, T.N., mladshiy nauchnyy sotrudnik; MERKULOVA, V.K., mladshiy nauchnyy sotrudnik

Directed use of microorganisms for the improvement of the quality of sausage products. Report No. 1. Trudy VNIIMP no.16: 64-75 '64. (MIRA 18:11)

1. Kafedra tekhnologii Moskovskogo tekhnologicheskogo instituta myasnoy i molochnoy promyshlennosti (for Kargal'tsev).

L 56530-65

ACCESSION NR: AP5015581

UR/0242/64/000/010/0066/0067

AUTHOR: Karpova, V. I.; Bogdanova, L. I.

TITLE: Aerosol treatment of bronchial asthma with broncholytic drugs

SOURCE: Meditsinskiy zhurnal Uzbekistana, no. 10, 1964, 66-67

TOPIC TAGS: aerosol, respiratory system disease, respiratory drug, experiment animal, drug treatment, antibiotic

Abstract: The article describes aerosol treatment of bronchial asthma with bronchodilators in combination with desensitizing drugs of the following composition: 2 ml of 24% theophylline, 1 ml of 2% papaverine hydrochloride, 1 ml of 3% ephedrine hydrochloride, 1 ml of 5% ascorbic acid and 1 ml of 1% dimedrol. When chronic lung diseases were present, aerosols of penicillin and streptomycin dissolved in 5 ml of a 0.5% novocaine solution were added to the treatment. A V-200 portable aerosol apparatus was used, and patients inhaled once a day -- or twice -- special case with an interval of 10-15 minutes. Treatment was stopped when the patient's asthma attacks ceased. The treatment was given to 13 men and 14 women between 26 and 60 years of age; 13 had suffered with bronchial asthma for 1-5 years; the others had had it over 5 years. Asthma attacks ceased in all patients: in 13 after

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L 56530-65

ACCESSION NR: AP5018581

5 treatments, in 10 after 7, and in 4 after 10 treatments. As a rule the treatment diminished wheezing, normalized body temperature, reduced the number of leukocytes and eosinophils in the urine, and increased lung capacity to 2,200-2,800.

ASSOCIATION: none

SUBMITTED: 04Jul63

ENCL: 00

SUB CODE: IS, CC

NO REF SOV: 000

OTHER: 000

JPRS

484
Card 2/2

DMITRIYEVA, G.V.; KARPOVA, V.M.

Operative calculation of precipitation amounts for Moscow.
Trudy TSIP no.83:42-44 '59. (MIRA 12:5)
(Moscow--Precipitation (Meteorology))

Z/011/62/019/007/005/005
E112/E453

AUTHORS: Lykov, M.V., Inozemtsev, I.D., Karpova, V.M.

TITLE: Protection of petroleum tankers by anticorrosion paints

PERIODICAL: Chemie a chemická technologie. Přehled technické a hospodářské literatury, v.19, no.7, 1962, 323, abstract Ch 62-4401. (Lakokras materialy, v.2, no.2, 1962, 34-40)

TEXT: The resistance of surface coating materials against the action of liquid fuels, particularly petroleum and against corrosion by atmospheric effects, were investigated under laboratory conditions. Techniques of applying anticorrosion paints to the inner surfaces of the tanks and containers were developed, particularly for containers which have to resist the action of fuels and lubricants. Methods were verified by practical application tests. The tested materials included stoving enamels and air drying lacquers. A method for sand-blasting the inner surfaces of the containers was developed and an equipment for their spraying with anticorrosion paint, heated to Card 1/2

S/081/62/000/018/020/059
B226/B186

AUTHORS: Lykov, M. V., Inozemtsev, I. D., Karpova, V. M.

TITLE: Anti-corrosion protection of mobile containers for petroleum products

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1962, 307, abstract 181170 (Lakokrasochn. materialy i ikh primeneniye, no. 2, 1962, 34 - 40)

TEXT: A number of petrol-resistant heat-dried and naturally-dried paint and varnish materials have been developed to protect the internal surfaces of containers from corrosion. A technological process for applying such coatings to these surfaces is described. [Abstracter's note: Complete translation.] ✓

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LYKOV, M.V.; INOZEMTSEV, I.D.; KARPOVA, V.M.

Anticorrosive protection of mobile tanks for petroleum products.

Lakokras.mat.i ikh prim. no.2:34-40 '62. (MIRA 15:5)

(Protective coatings) (Petroleum—Storage)